

## Principles of Construction

**TEDS:** 13004220

**KISD:** 81220

**Credit:** 1

**Grade:** 9-11

**Recommended prerequisite:** None

Principles of Construction provides an overview to the various fields of construction science and construction technology. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Safety and career opportunities are included, in addition to work ethics and job-related study in the classroom such as communications; problem solving and critical thinking; Information Technology Applications; systems; safety, health, and environmental; leadership and teamwork; ethics and legal responsibilities; employability and career development; technical skills; introduction to hand tools; introduction to power tools; basic rigging.

## Construction Technology I

**TEDS:** 13005100

**KISD:** 8825

**Credits:** 2

**Grade:** 10-12

**Recommended prerequisite:** Principles of Construction

In Construction Technology I, students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors, or prepare for a postsecondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.



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## Construction Technology II

**TEDS:** 13005200

**KISD:** 8827

**Credits:** 2

**Grade:** 11-12

**Required prerequisite:** Construction Technology I

In Construction Technology II, students gain knowledge and skills specific to those needed to enter the workforce as carpenters or building maintenance supervisors or build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Technology includes the knowledge of the design, techniques, and tools related to the management of architectural and engineering projects. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

## Practicum in Construction Technology

**TEDS:** 13005250

**KISD:** 81225

**Credits:** 2

**Grade:** 12

**Required prerequisite:** HVAC II, or Plumbing Technology II, or Electrical Technology II, or Construction Technology II

In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.

## Practicum in Construction Management

**TEDS:** 13006200

**KISD:** 81224

**Credit:** 2

**Grade:** 11-12

**Recommended prerequisite:** 3 credits in construction management program including Construction Management II

Practicum in Construction Management is an occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom. Instruction may be delivered through laboratory training or through career preparation delivery arrangements.